## REMEDIAL DESIGN

# CONTRACT DRAWINGS CONTRACT NO. D006547

# FOR THE KLIEGMAN BROTHERS SITE OPERABLE UNIT NO. 1 (ON-SITE) NYSDEC SITE 2-41-031 GLENDALE, QUEENS, NEW YORK



Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 625 Broadway, Albany, New York

ALEXANDER B. GRANNIS, COMMISSIONER

DIVISION OF ENVIRONMENTAL REMEDIATION

**APRIL 2007** 

**URS** Corporation

**Group Consultants** 

77 Goodell Street Buffalo, New York 14203 (716)856-5636 phone - (716)856-2545 fax

INDEX OF DRAWINGS				
DWG. NO. DESCRIPTION				
	TITLE SHEET			
1	INDEX OF DRAWINGS, GENERAL NOTES, AND SITE LOCATION MAP			
2	SITE PLAN			
3	PROCESS AND INSTRUMENTATION DIAGRAM			
4	WELL CONSTRUCTION AND MISC. DETAILS			
5	ELECTRICAL DETAILS AND ONE-LINE DIAGRAM			

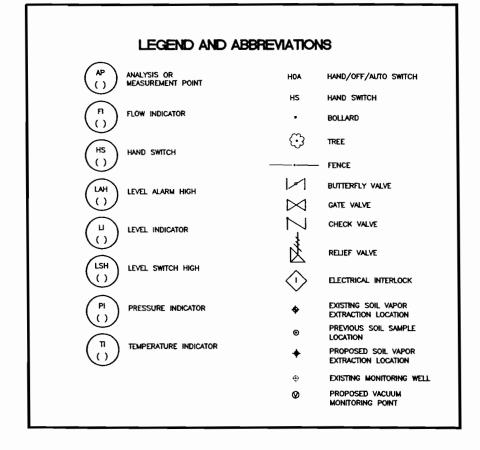
N	SITE LOCATION MAP
x x	66th 66th 6 66th 6 6 6 6 6 6 6 6 6 6 6 6
	Indiana Golf Course

SOURCE: ArcView GIS STREETMAP

KLIEGMAN BROTHERS SITE OPERABLE UNIT NO.1 76-01 77th AVENUE GLENDALE, QUEENS, NEW YORK

### NOTES

- 1. If is a violation of Section 7209, Subdimision 2, of the New York State Education Law for any Person, other than whose seal appears on this drawing to alter in any way any fem on this drawing. If an Item is altered, the altering engineer shall affix to the Item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.
- 2. BASEMAP BY ENMROSCIENCE CONSULTANTS, INC., 2001.
- THE TOPOGRAPHY ON THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THIS DRAWING IS PROVIDED FOR GENERAL LOCATION AND ARRANGEMENT.
- 4. THE LOCATION OF ANY UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION ACTIVITIES, ALL UTILITY COMPANIES SHOULD BE NOTIFIED IN ORDER TO VERIFY OR AMEND THEIR LOCATIONS AND/OR EXISTENCE. FOR ASSISTANCE CALL UPPO AT 1-800-962-7962.
- 5. LEGEND OF ELECTRICAL SYMBOLS IS SHOWN ON DRAWING 5.



				_					
BIS A VIOLATION OF SECTION 7209, MISHON 2, OF THE NEW YORK STATE ATTOM LAW FOR ANY PERSON OTHER WHOSE SEAL APPEARS ON THAS MISHON THE MAY BUT ANY THE TOM LITEMAGE ENGINEER SHALL AFTER TO BE TIDE HIS SEAL AND THE MOTIONIN							DESIGNED BY:	<u>DMc</u>	
							DRAWN BY:	RAL	
							CHECKED BY:		
RED BY FOLLOWED BY HIS SIGNATURE THE DATE OF SUCH ALTERATION, AND ECIFIC DESCRIPTION OF THE ALTERATION.	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	CHECKED BY.	CHP	L
	REVISIONS						PROJ. ENGR.	DMc	i



Group Consultants 77 Goodell Street, Buffalo, New York 14203 (716)856-5636 - (716)856-2545 fax JOB No. 11171964.00000



NYSDEC SITE 2-41-031 GLENDALE, QUEENS

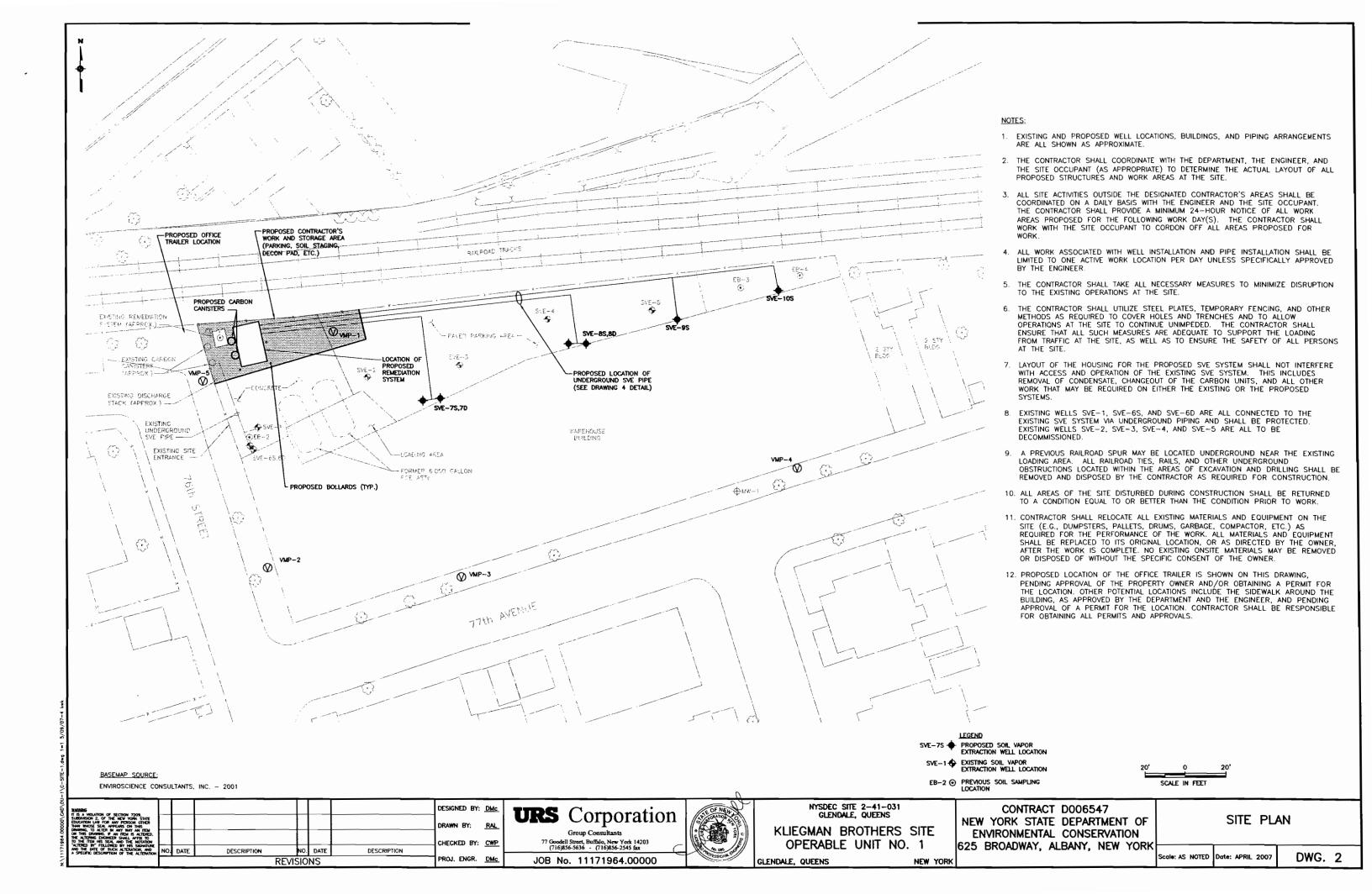
KLIEGMAN BROTHERS SITE OPERABLE UNIT NO. 1

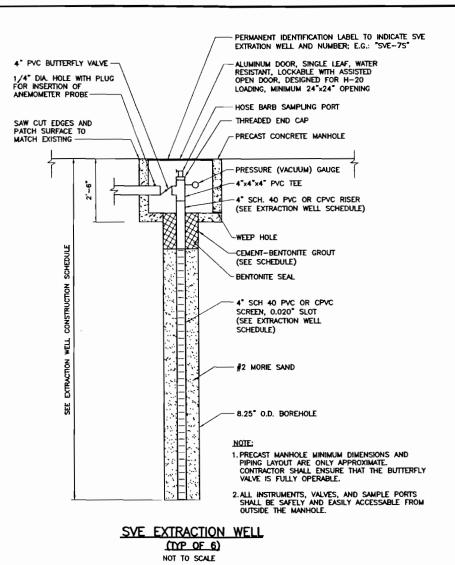
GLENDALE, QUEENS NEW YORK

CONTRACT D006547 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 625 BROADWAY, ALBANY, NEW YORK INDEX OF DRAWINGS, GENERAL NOTES, AND SITE LOCATION MAP

Scale: NONE

Date: APRIL 2007 DWG. 1





SVE EXTRACTION WELL CONSTRUCTION SCHEDULE				
WELL NUMBER	APPROX. WELL DEPTH (FEET bgs)	SCREENED INTERVAL (FEET bgs)	BENTONITE SEAL (FEET bgs)	CEMENT - BENTONITE GROUT (FEET bgs)
SVE-7S	25.0	5 - 25	2.5 - 5	-
SVE-7D	65.0	30 - 65	22.5 - 25	2.5 - 22.5
SVE-8S	25.0	5 - 25	2.5 - 5	-
SVE-8D	65.0	30 - 65	22.5 - 25	2.5 - 22.5

5 ~ 12

5 - 12

bgs = BELOW GROUND SURFACE

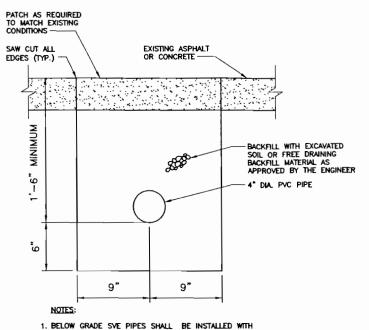
12.0

12.0

SVE-9S

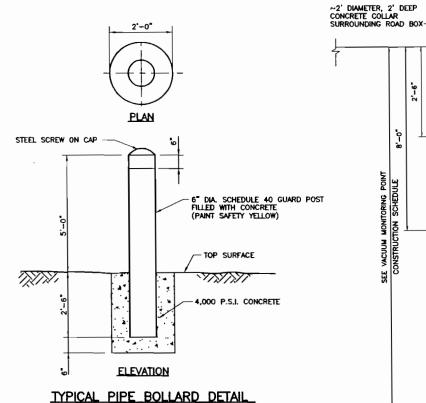
SVE-10S

1. WELL DEPTHS AND DIMENSIONS SHOWN ARE APPROXIMATE. WELLS ARE TO BE COMPLETED ABOVE THE WATER TABLE AND AS APPROVED BY THE ENGINEER. NO WELLS SHALL PENETRATE THE CONFINING CLAY LAYER (IF PRESENT).



1. BELOW GRADE SVE PIPES SHALL BE INSTALLED WITH MINIMUM CONSTANT 1% SLOPE BACK TOWARD EXTRACTION WELLS.

> SVE PIPE TRENCH DETAIL NOT TO SCALE



NOT TO SCALE

VACUUM MONITORING POINT (TYP OF 4)

PERMANENT IDENTIFICATION LABEL TO INDICATE VACUUM MONITORING POINT AND NUMBER; E.G.,

-12" DIAMETER ROAD BOX

- 1" SCH 40 PVC RISER

- CEMENT BENTONITE GROUT

-HOSE BARB VALVE - THREADED END CAP

-WEEP HOLE

BENTONITE SEAL

-1" SCH 40 PVC

#2 MORIE SAND

2" O.D. BOREHOLE

1" SCH 40 PVC

SCREEN, 0.020° SLOT

VACUUM MONITORING POINT CONSTRUCTION SCHEDULE			
VMP NUMBER	APPROX. TOTAL DEPTH (FEET bgs)		
VMP-1	30		
VMP-2	30		
VMP-3	30		
VMP-4	12		
VMP-5	30		

1. VMP'S SHALL NOT PENETRATE THE CONFINING CLAY LAYER. IF PRESENT.

SIGNED BY: DMc	<b>URS</b> Corporation
ZAWN BY: <u>RAL</u>	Group Consultants
ECKED BY: <u>CWP</u>	77 Goodell Street, Buffalo, New York 14203 (716)856-5636 - (716)856-2545 fax
ROJ. ENGR. <u>DMc</u>	JOB No. 11171964.00000

### **S** Corporation

KLIEGMAN BROTHERS SITE

OPERABLE UNIT NO. 1 GLENDALE, QUEENS

CONTRACT D006547 NEW YORK STATE DEPARTMENT OF **ENVIRONMENTAL CONSERVATION** 625 BROADWAY, ALBANY, NEW YORK

WELL CONSTRUCTION AND MISC. DETAILS

DWG. 4 Scale: AS NOTED Date: APRIL 2007

DESCRIPTION NO. DATE DESCRIPTION REVISIONS

**NEW YORK** 

2.5 - 5

2.5 - 5

NYSDEC SITE 2-41-031 GLENDALE, QUEENS

